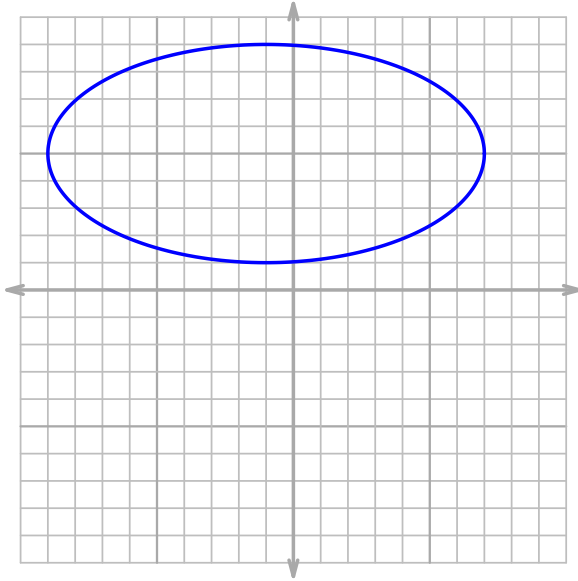


**Question 1**

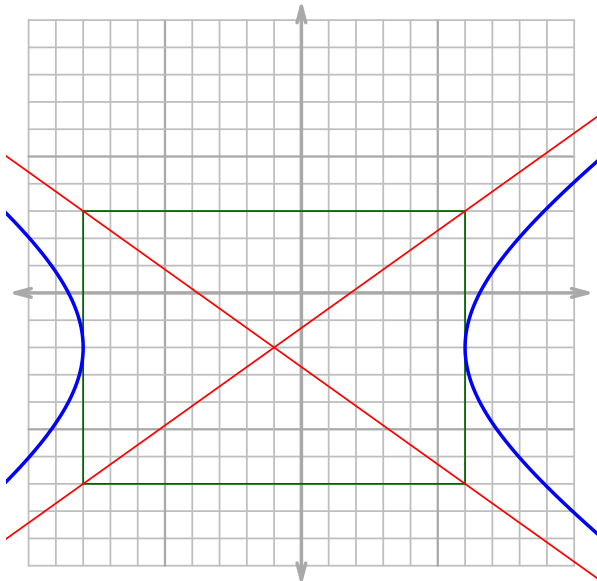
Please write the equation of the conic section graphed below. You can assume all vertices and co-vertices are on integer gridpoints.



$$\frac{(x+1)^2}{64} + \frac{(y-5)^2}{16} = 1$$

**Question 2**

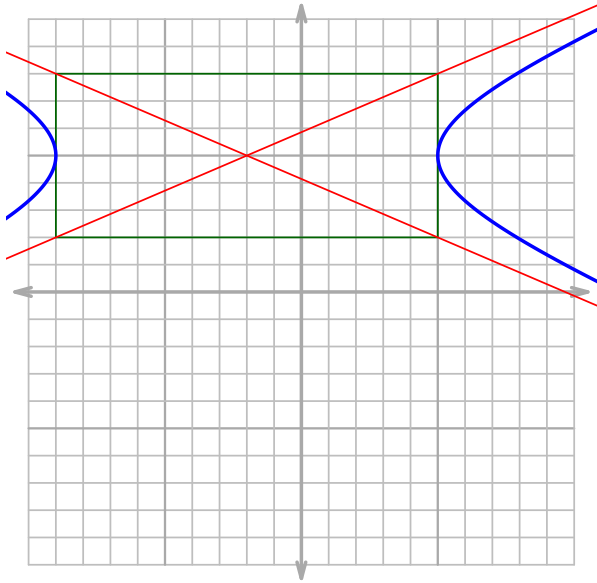
Please write the equation of the conic section graphed below. You can assume all vertices and co-vertices are on integer gridpoints.



$$\frac{(x+1)^2}{49} - \frac{(y+2)^2}{25} = 1$$

**Question 3**

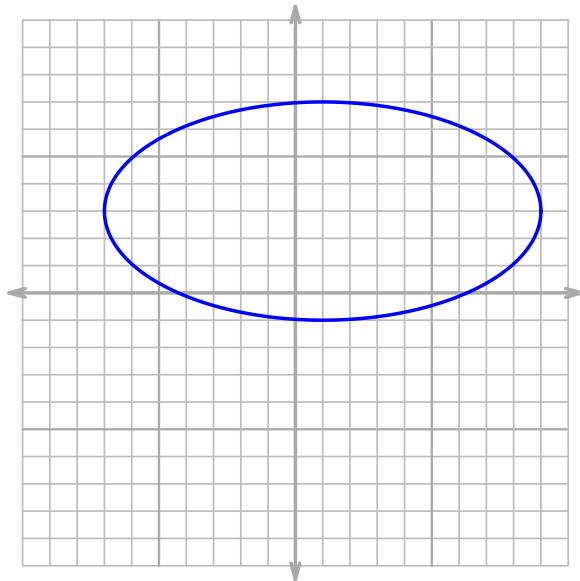
Graph the conic section represented by the equation. For a hyperbola, please include the central rectangle and the asymptotes.



$$\frac{(x+2)^2}{49} - \frac{(y-5)^2}{9} = 1$$

**Question 4**

Graph the conic section represented by the equation. For a hyperbola, please include the central rectangle and the asymptotes.



$$\frac{(x-1)^2}{64} + \frac{(y-3)^2}{16} = 1$$